

**Bureau of Laboratories Equipment Wish List**

Requested by CD Bureau

3-28-05

| <b>Priority</b> | <b>Laboratory Location</b>  | <b>Item</b>  | <b>Estimated Cost</b> | <b>Justification</b>   |
|-----------------|---|--|-----------------------|--|
| 1               | Drug analysis Lab- Jamaica Plain  | Balance, top loading                                 | \$ 779.00             | Replacement of unrepairable equipment needed for testing   |
| 2               | Drug analysis Lab- Jamaica Plain  | Balance, top loading                                 | \$ 779.00             | Replacement of unrepairable equipment needed for testing   |
| 3               | Drug analysis Lab- Jamaica Plain  | Balance, top loading, high capacity                  | \$ 1,400.00           | Replacement of unrepairable equipment needed for testing   |
| 4               | Drug analysis Lab- Amherst  | Balance, analytical                                  | \$ 2,300.00           | Replacement of unrepairable equipment needed for testing   |
| 5               | Drug analysis Lab- Jamaica Plain  | microscope, stereo                                   | \$ 1,500.00           | Replacement of aging equipment (>20 yrs) needed for testing  |
| 6               | Drug analysis Lab- Jamaica Plain  | Light for microscope                                 | \$ 207.00             | Replacement of unrepairable equipment needed for testing   |
| 7               | Drug analysis Lab- Amherst  | Refrigerator explosion proof / flammable storage     | \$ 1,150.00           | Replacement of unrepairable equipment needed for solvent storage   |
| 8               | Drug analysis Lab- Amherst  | Storage safe   | \$ 1,361.00           | Replacement of unrepairable equipment needed for evidence/ specimen  |
| 9               | Drug analysis Lab- Amherst  | Storage safe   | \$ 1,361.00           | Replacement of unrepairable equipment needed for evidence/ specimen  |
| 10              | Molecular Laboratory  | QA/QC Instrumentation for PCR temperature validation | \$ 6,500.00           | New item to perform mandated QA procedures   |
| 11              | Infectious Disease Virology Lab Division- Viral Isolation/ Serology       | Filtering pump system                                | \$ 800.00             | Replacement of unrepairable equipment needed for test reagent preparation  |
| 12              | Infectious Disease Virology Lab Division- Viral Serology                  | Immunoblot autoblotter                               | \$ 1,500.00           | New equipment to automate Lyme Disease Western Blot testing  |
| 13              | Infectious Disease Virology Lab Division- Viral Isolation                 | pH meter   | \$ 800.00             | Replacement of aging equipment needed for preparing testing reagents   |
| 14              | Infectious Disease Virology Lab Division- Viral Serology                  | pH meter   | \$ 800.00             | Replacement of aging equipment needed for preparing testing reagents   |
| 15              | Infectious Disease Virology Lab Division- Viral Serology                  | Conductivity meter                                   | \$ 800.00             | Replacement of aging equipment needed for preparing testing reagents   |
| 16              | Infectious Disease Virology Lab Division- Viral Serology                  | Immunoblot Gel Casting equipment                     | \$ 3,000.00           | Replacement of unrepairable equipment needed for immunoblot testing<br>Replacement of aging equipment no longer supported by manufacturer needed for testing |
| 17              | Drug analysis Lab- Jamaica Plain  | Gas chromatograph                                    | \$ 35,336.00          | Replacement of aging equipment no longer supported by manufacturer needed for testing  |
| 18              | Drug analysis Lab- Amherst  | Gas chromatograph                                    | \$ 35,336.00          | Replacement of aging equipment no longer supported by manufacturer needed for testing  |
| 19              | Diagnostic Microbiology Lab Division- Pulse Field Gel Electrophoresis Lab | BioRad chef mapper, complete system                  | \$ 40,000.00          | Replacement of unrepairable equipment needed for testing   |
| 20              | Diagnostic Microbiology Lab Division- Pulse Field Gel Electrophoresis Lab | 2- BioRad chef mapper, electrophoresis chamber       | \$ 2,500.00           | Replacement of unrepairable equipment needed for testing   |
| 21              | Molecular Laboratory  | 10- Personal Air Purifying Respirators               | \$ 11,157.00          | New item for working with viral specimens in a BSL-3 laboratory  |
| 22              | Drug analysis Lab- Amherst  | InfraRed Spectrophotometer with microscope           | \$ 42,000.00          | Replacement of aging equipment (>20 yrs) needed for testing  |
| 23              | Drug analysis Lab- Jamaica Plain  | InfraRed Spectrophotometer with microscope           | \$ 42,000.00          | Replacement of aging equipment (>20 yrs) needed for testing  |
| 24              | Drug analysis Lab- Amherst  | 15- Storage cabinets/units                           | \$ 1,335.00           | New item for storing equipment and files.<br>Replacement of aging equipment no longer supported by manufacturer needed for testing                           |
| 25              | Drug analysis Lab- Amherst  | Gas chromatograph / Mass spectrometer                | \$ 74,672.00          | Replacement of aging equipment no longer supported by manufacturer needed for testing  |
| 26              | Infectious Disease Virology Lab Division- Viral Serology                  | Computer printer                                     | \$ 900.00             | Replacement of aging equipment needed for testing  |
| 27              | Infectious Disease Virology Lab Division- Viral Serology                  | Computer printer                                     | \$ 900.00             | Replacement of aging equipment needed for testing  |
|                 |   |  | \$ 311,173.00         |  |

**Laboratory Equipment List FY2007 4516-1000 rev.4 (20070205)**

**Bureau of Laboratory Sciences Equipment Needs**

| <b>Laboratory Location</b>                                     | <b>Manager</b> | <b>Item</b>                                    | <b>Estimated Cost</b> |
|--|----------------|--|-----------------------|
| Central Lab Services- Specimen Receiving                       | K. Nawn        | two door refrigerator \$15,000.00              | \$ -                  |
| Central Lab Services- Specimen Receiving                       | K. Nawn        | biosafety cabinet \$10,000.00                  | \$ -                  |
| Central Lab Services- Specimen Receiving                       | K. Nawn        | security Camera \$10,000.00                    | \$ -                  |
| Central Lab Services- Specimen Receiving                       | K. Nawn        | proximity reader/swipe door locks (2)*         | \$11,000.00 \$ -      |
| Microbiology Lab Division - Enterics                           | J. Fontana     | plate reader \$5,000.00                        | \$ -                  |
| Microbiology Lab Division - HIV                                | A. Kazianis    | plate reader (dual-wavelength) \$7,600.00      | \$ -                  |
| Microbiology Lab Division - HIV                                | A. Kazianis    | plate reader (strip) \$5,200.00                | \$ -                  |
| Microbiology Lab Division - HIV                                | A. Kazianis    | plate reader (strip) \$5,200.00                | \$ -                  |
| Microbiology Lab Division - PFGE                               | J. Fontana     | Bio-Rad PFGE module                            | \$ 25,000.00          |
| Microbiology Lab Division- PFGE                                | J. Fontana     | plate shaker \$1,500.00                        | \$ -                  |
| Microbiology Lab Division - STD Lab                            | A. Borne       | biosafety cabinet \$10,000.00                  | \$ -                  |
| Drug Analysis Lab- Amherst                                     | A. Stevenson   | storage safe                                   | \$ 1,361.00           |
| Drug Analysis Lab- Amherst                                     | A. Stevenson   | gas chromatograph                              | \$ 35,336.00          |
| Drug Analysis Lab- Amherst                                     | A. Stevenson   | gas chromatograph/ mass spectrometer           | \$ 95,000.00          |
| Drug Analysis Lab- Amherst                                     | A. Stevenson   | infrared spectrophotometer with microscope     | \$ 42,000.00          |
| Molecular and Virology Lab Division - Viral Isolation/Serology | R. Konomi      | auto blotter \$10,000.00                       | \$ -                  |
| Molecular and Virology Lab Division - Viral Isolation/Serology | R. Konomi      | filtering pump system                          | \$ 800.00             |
| Molecular and Virology Lab Division - Viral Isolation/Serology | R. Konomi      | gel casting equipment \$3,000.00               | \$ -                  |
| Molecular and Virology Lab Division - Viral Isolation/Serology | R. Konomi      | freezer chart recorders \$12,000.00            | \$ -                  |
| Molecular and Virology Lab Division - Molecular Lab            | S. Smole       | ABI 7500 sequence detection system \$50,000.00 | \$ -                  |
| Lab Preparedness Division- Biologic Threat Lab                 | C. Gauthier    | centrifuge \$25,000.00                         | \$ -                  |
| Molecular and Virology Lab Division- Molecular Lab             | S. Smole       | pipette calibration system \$42,500.00         | \$ -                  |
| Molecular and Virology Lab Division                            | S. Smole       | PAPR breathing tube (6) and face shields(6)    | \$ 1,860.00           |
| Microbiology Lab Division- TB Lab                              | P. Elvin       | refrigerator \$6,000.00                        | \$ -                  |
| <b>Equipment List Sub Total</b>                                |                |  | <b>\$ 112,157.00</b>  |

Rev.4 (20070205)

**Justification**

Defer to FY07 BT rollover or FY08 4516-1000.

New. For storage of specimens received for testing

Defer to FY07 BT rollover or FY08 4516-1000. New. For safe specimen handling in the Specimen Receiving Area were none exists.

Defer to FY07 BT rollover or FY08 4516-1000. New. For monitoring of Specimen Receiving Area.

Defer to FY07 BT rollover or FY08 4516-1000. New. For securing access to Specimen Receiving Area.

Defer to FY08 4516-1000. New item for reading results of Shiga toxin tests. Currently using borrowed equipment.

Delete from list. New item for dedicated hepatitis testing to replace older testing methodology.

Delete from list. Replace unrepairable equipment required for hepatitis screening.

Delete from list. Replace unrepairable equipment required for hepatitis screening.

Replace aging equipment for PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.

Delete from list. New item to provide adequate testing capacity

Delete from list. Replace aging equipment (>20 years) needed for testing

Replace unrepairable equipment needed for storage of evidence/ specimens

Replace aging testing equipment no longer supported by manufacturer

Defer to FY08 4516-1000. Replace aging equipment no longer supported by manufacturer needed for testing

Replace aging equipment needed for testing

~~Deleted not needed.~~ New item to perform new Lyme testing.

Replace aging equipment (>20 years) needed for testing

~~Deleted not needed.~~ Replace aging equipment used to prepare lab reagents

~~Deleted not needed.~~ Provide remote monitoring of critical specimen freezers

Defer to FY07 BT rollover. Equipment with greater testing capacity for accurate and expedient identification of biologic threat agents

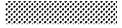
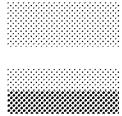
~~Replace aging equipment. Provide centrifugation capability to perform specimen testing.~~

Delete- purchased in FY06. Replace aging equipment. Provide centrifugation capability to perform specimen testing.

Delete not needed. Perform QC program required pipette calibration

New safety personal protective equipment.

Delete- purchased in FY06. Replace aging refrigeration equipment for TB specimens



Laboratory Equipment 4516-1000 FY2007- Rev. 3 (20060105)

## Bureau of Laboratory Sciences Equipment Needs

| Laboratory Location  | Manager      | Item   | Estimated Cost |
|--|--------------|--|----------------|
| Central Lab Services- Specimen Receiving                       | K. Nawn      | two door refrigerator \$15,000.00                  | \$ -           |
| Central Lab Services- Specimen Receiving                       | K. Nawn      | biosafety cabinet \$10,000.00                      | \$ -           |
| Central Lab Services- Specimen Receiving                       | K. Nawn      | security Camera \$10,000.00                        | \$ -           |
| Central Lab Services- Specimen Receiving                       | K. Nawn      | proximity reader/swipe door locks (2)* \$11,000.00 | \$ -           |
| Microbiology Lab Division - Enterics                           | J. Fontana   | plate reader                                       | \$5,000.00     |
| Microbiology Lab Division - HIV                                | A. Kazianis  | plate reader (dual-wavelength) \$7,600.00          | \$ -           |
| Microbiology Lab Division - HIV                                | A. Kazianis  | plate reader (strip) \$5,200.00                    | \$ -           |
| Microbiology Lab Division - HIV                                | A. Kazianis  | plate reader (strip) \$5,200.00                    | \$ -           |
| Microbiology Lab Division - PFGE                               | J. Fontana   | Bio-Rad PFGE module                                | \$ 25,000.00   |
| Microbiology Lab Division- PFGE                                | J. Fontana   | plate shaker \$1,500.00                            | \$ -           |
| Microbiology Lab Division - STD Lab                            | A. Borne     | biosafety cabinet \$10,000.00                      | \$ -           |
| Drug analysis Lab- Amherst                                     | A. Stevenson | storage safe                                       | \$ 1,361.00    |
| Drug analysis Lab- Amherst                                     | A. Stevenson | gas chromatograph                                  | \$ 35,336.00   |
| Drug analysis Lab- Amherst                                     | A. Stevenson | gas chromatograph/ mass spectrometer               | \$ 95,000.00   |
| Drug analysis Lab- Amherst                                     | A. Stevenson | infrared spectrophotometer with microscope         | \$ 42,000.00   |
| Molecular and Virology Lab Division - Viral Isolation/Serology | R. Konomi    | auto blotter \$10,000.00                           | \$ -           |
| Molecular and Virology Lab Division - Viral Isolation/Serology | R. Konomi    | filtering pump system                              | \$ 800.00      |
| Molecular and Virology Lab Division - Viral Isolation/Serology | R. Konomi    | gel casting equipment \$3,000.00                   | \$ -           |
| Molecular and Virology Lab Division - Viral Isolation/Serology | R. Konomi    | freezer chart recorders \$12,000.00                | \$ -           |
| Lab Preparedness Division- Biologic Threat Lab                 | C. Gauthier  | incubator  | \$ 5,000.00    |
| Lab Preparedness Division- Biologic Threat Lab                 | C. Gauthier  | centrifuge \$25,000.00                             | \$ -           |
| Molecular and Virology Lab Division- Molecular Lab             | S. Smole     | pipette calibration system \$42,500.00             | \$ -           |
| Molecular and Virology Lab Division                            | S. Smole     | PAPR breathing tube (6) and face shields(6)        | \$ 1,860.00    |
| Microbiology Lab Division- TB Lab                              | P. Elvin     | refrigerator \$6,000.00                            | \$ -           |

Rev.3 (20070105)

**Justification**

**Defer to FY07 BT rollover or FY08 4516-1000.**  
**Defer to FY07 BT rollover or FY08 4516-1000.**  
Area were none exists.

For storage of specimens received for testing  
For safe specimen handling in the Specimen Receiving

**Defer to FY07 BT rollover or FY08 4516-1000.**

For monitoring of Specimen Receiving Area.

**Defer to FY07 BT rollover or FY08 4516-1000.**

For securing access to Specimen Receiving Area.

New item for reading results of Shiga toxin tests. Currently using borrowed equipment.

**Delete from list.** New item for dedicated hepatitis testing to replace older testing methodology.

**Delete from list.** Replacement of unrepairable equipment required for hepatitis screening.

**Delete from list.** Replacement of unrepairable equipment required for hepatitis screening.

Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.

**Delete from list.** New item to provide adequate testing capacity

**Delete from list.** Replacement for aging equipment (>20 years) needed for testing

Replacement of unrepairable equipment needed for storage of evidence/ specimens

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment needed for testing

**Deleted not needed.** New item to perform new Lyme testing.

Replacement for aging equipment (>20 years) needed for testing

**Deleted not needed.** Replacement of aging equipment used to prepare lab reagents

**Deleted not needed.** Provide remote monitoring of critical specimen freezers

Replace aging equipment. Provide incubation capability to perform specimen bacteria testing

**Delete- purchased in FY06.** Replace aging equipment. Provide centrifugation capability to perform specimen testing.

**Deleted not needed.** Perform QC program required pipette calibration

New safety personal protective equipment.

**Delete- purchased in FY06.** Replace aging refrigeration equipment for TB specimens

**Bureau of Laboratories Equipment Needs**

| <b>Laboratory Location</b>  | <b>Manager</b> | <b>Item</b>                                | <b>Estimated Cost</b> | <b>Justification</b>  |
|---|----------------|--|-----------------------|---|
| Central Lab Services- Specimen Receiving                            | K. Nawn        | Two door refrigerator                      | \$ 15,000.00          | For storage of specimens received for testing   |
| Central Lab Services- Specimen Receiving                            | K. Nawn        | Bio Safety Cabinet                         | \$ 10,000.00          | For safe specimen handling in the Specimen Receing Area were none exists.   |
| Central Lab Services- Specimen Receiving                            | K. Nawn        | Security Camera                            | \$ 10,000.00          | For monitoring of Specimen Receiving Area.  |
| Central Lab Services- Specimen Receiving                            | K. Nawn        | Proximity reader/swipe door locks (2)      | \$ 11,000.00          | For securing access to Specimen Receiving Area.   |
| Diagnostic Microbiology Lab Division - Enterics                     | J. Fontana     | Plate Reader                               | \$1,000.00            | New item for reading results of Shiga toxin tests. Currently using borrowed equipment.  |
| Diagnostic Microbiology Lab Division - HIV                          | A. Kazianis    | Plate Reader (dual-wavelength)             | \$7,600.00            | New item for dedicated hepatitis testing to replace older testing methodology.  |
| Diagnostic Microbiology Lab Division - HIV                          | A. Kazianis    | plate reader (strip)                       | \$5,200.00            | Replacement of unrepairable equipment required for hepatitis screening.   |
| Diagnostic Microbiology Lab Division - HIV                          | A. Kazianis    | plate reader (strip)                       | \$5,200.00            | Replacement of unrepairable equipment required for hepatitis screening.   |
| Diagnostic Microbiology Lab Division - PFGE                         | J. Fontana     | Bio-Rad PFGE Module                        | \$ 25,000.00          | Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.        |
| Diagnostic Microbiology Lab Division- PFGE                          | J. Fontana     | plate shaker                               | \$ 1,500.00           | New item to provide adequate testing capacity   |
| Diagnostic Microbiology Lab Division - STD Lab                      | A. Borne       | Biosafety Cabinet                          | \$10,000.00           | Replacement for aging equipment (>20 years) needed for testing  |
| Drug analysis Lab- Amherst  | A. Stevenson   | Storage safe                               | \$ 1,361.00           | Replacement of unrepairable equipment needed for storage of evidence/specimens  |
| Drug analysis Lab- Amherst  | A. Stevenson   | Gas chromatograph                          | \$ 35,336.00          | Replacement of aging equipment no longer supported by manufacturer needed for testing   |
| Drug analysis Lab- Amherst  | A. Stevenson   | Gas chromatograph/ mass spectrometer       | \$ 95,000.00          | Replacement of aging equipment no longer supported by manufacturer needed for testing   |
| Drug analysis Lab- Amherst  | A. Stevenson   | InfraRed Spectrophotometer with microscope | \$ 42,000.00          | Replacement of aging equipment needed for testing   |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | R. Konomi      | auto blotter                               | \$ 10,000.00          | New item to perform new Lyme testing.   |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | R. Konomi      | filtering pump system                      | \$ 800.00             | Replacement for aging equipment (>20 years) needed for testing  |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | R. Konomi      | gel casting equipment                      | \$ 3,000.00           | Replacement of aging equipment used to prepare lab reagents   |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | R. Konomi      | Freezer Chart Recorders                    | \$ 12,000.00          | Provide remote monitoring of critical specimen freezers   |
| Biological Threat Assessment Lab Division                           | C. Gauthier    | Incubator                                  | \$ 5,000.00           | Replace aging equipment. Provide incubation capability to perform specimen bacteria testing   |
| Biological Threat Assessment Lab Division                           | C. Gauthier    | Centrifuge                                 | \$                    | - Replace aging equipment. Provide centrifugation capability to perform specimen testing-Per M. Izzi to be purchased from FERN grant (\$20,000) |
| Molecular Laboratory Division                                       | S. Smole       | Pipette calibration system                 | \$ 42,500.00          | Perform QC program required pipette calibration   |
| TB Laboratory-Isolation   | P. Elvin       | Refrigerator                               | \$ 6,000.00           | Replace aging equipment. Provide refrigeration for TB specimens   |

**Equipment List Sub Total:** \$ 354,497.00

Bureau of Laboratories Equipment Needs

| Laboratory Location   | Item                                       | Estimated Cost      | Justification  |
|---|--|---------------------|--|
| Central Lab Services- Specimen Receiving                            | Two door refrigerator                      | \$ 15,000.00        |  |
| Diagnostic Microbiology Lab Division - Enterics                     | Plate Reader                               | \$1,000.00          | New item for reading results of Shiga toxin tests. Currently using borrowed equipment.   |
| Diagnostic Microbiology Lab Division - HIV                          | Plate Reader (dual-wavelength)             | \$7,600.00          | Replacement of unrepairable equipment needed for testing   |
| Diagnostic Microbiology Lab Division - HIV                          | plate reader (strip)                       | \$5,200.00          | Replacement of unrepairable equipment needed for testing   |
| Diagnostic Microbiology Lab Division - HIV                          | plate reader (strip)                       | \$5,200.00          | Replacement of unrepairable equipment needed for testing   |
| Diagnostic Microbiology Lab Division - PFGE                         | Bio-Rad PFGE Module                        | \$ 25,000.00        | Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods. |
| Diagnostic Microbiology Lab Division- PFGE                          | plate shaker                               | \$ 1,500.00         |  |
| Diagnostic Microbiology Lab Division - STD Lab                      | Biosafety Cabinet                          | \$10,000.00         | Replacement for aging equipment (>20 years) needed for testing   |
| Drug analysis Lab- Amherst  | Storage safe                               | \$ 1,361.00         | Replacement of unrepairable equipment needed for evidence/ specimen  |
| Drug analysis Lab- Amherst  | Gas chromatograph                          | \$ 35,336.00        | Replacement of aging equipment no longer supported by manufacturer needed for testing  |
| Drug analysis Lab- Amherst  | Gas chromatograph/ mass spectrometer       | \$ 95,000.00        |  |
| Drug analysis Lab- Amherst  | InfraRed Spectrophotometer with microscope | \$ 42,000.00        | Replacement of aging equipment (>20 yrs) needed for testing  |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | auto blotter                               | \$ 10,000.00        | New item to perform new Lyme testing.  |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | filtering pump system                      | \$ 800.00           | Replacement for aging equipment (>15 years) needed for specimen tracking   |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | gel casting equipment                      | \$ 3,000.00         | Replacement for aging equipment (>20 years) needed for testing   |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | Freezer Chart Recorders                    | \$ 12,000.00        | New item to record temperature data for Liquid Nitrogen System   |
|   |  |                     |  |
|   |  |                     |  |
|   |  |                     |  |
|   |  |                     |  |
| <b>Equipment List Sub Total:</b>                                    |  | <b>\$257,997.00</b> |  |

Rev.1

**Justification**

For storage of specimens received for testing

New item for reading results of Shiga toxin tests. Currently using borrowed equipment.

New item for dedicated hepatitis testing to replace older testing methodology.

Replacement of unrepairable equipment required for hepatitis screening.

Replacement of unrepairable equipment required for hepatitis screening.

Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.

New item to provide adequate testing capacity

Replacement for aging equipment (~20 years) needed for testing

Replacement of unrepairable equipment needed for storage of evidence/specimens

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment needed for testing

New item to perform new Lyme testing.

Replacement for aging equipment (~20 years) needed for testing

Replacement of aging equipment used to prepare lab reagents

Provide remote monitoring of critical specimen freezers

## Bureau of Laboratories Equipment Needs

| Laboratory Location   | Item                                       | Estimated Cost | Justification  |
|---|--|----------------|--|
| Central Lab Services- Specimen Receiving                            | Two door refrigerator                      | \$ 15,000.00   |  |
| Diagnostic Microbiology Lab Division - Enterics                     | Plate Reader                               | \$1,000.00     | New item for reading results of Shiga toxin tests. Currently using borrowed equipment.   |
| Diagnostic Microbiology Lab Division - HIV                          | Plate Reader (dual-wavelength)             | \$7,600.00     | Replacement of unrepairable equipment needed for testing   |
| Diagnostic Microbiology Lab Division - HIV                          | plate reader (strip)                       | \$5,200.00     | Replacement of unrepairable equipment needed for testing   |
| Diagnostic Microbiology Lab Division - HIV                          | plate reader (strip)                       | \$5,200.00     | Replacement of unrepairable equipment needed for testing   |
| Diagnostic Microbiology Lab Division - PFGE                         | Bio-Rad PFGE Module                        | \$ 25,000.00   | Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods. |
| Diagnostic Microbiology Lab Division- PFGE                          | plate shaker                               | \$ 1,500.00    |  |
| Diagnostic Microbiology Lab Division - STD Lab                      | Biosafety Cabinet                          | \$10,000.00    | Replacement for aging equipment (>20 years) needed for testing   |
| Drug analysis Lab- Amherst  | Balance, analytical                        | \$ 2,300.00    | Replacement of unrepairable equipment needed for testing   |
| Drug analysis Lab- Amherst  | Storage safe                               | \$ 1,361.00    | Replacement of unrepairable equipment needed for evidence/ specimen  |
| Drug analysis Lab- Amherst  | Gas chromatograph                          | \$ 35,336.00   | Replacement of aging equipment no longer supported by manufacturer needed for testing  |
| Drug analysis Lab- Amherst  | Gas chromatograph/ mass spectrometer       | \$ 95,000.00   |  |
| Drug analysis Lab- Amherst  | InfraRed Spectrophotometer with microscope | \$ 42,000.00   | Replacement of aging equipment (>20 yrs) needed for testing  |
| Drug analysis Lab- Amherst  | 15- Storage cabinets/units                 | \$ 1,335.00    | New item for storing equipment and files.  |
| Drug analysis Lab- Jamaica Plain                                    | Gas chromatograph                          | \$ 35,336.00   | Replacement of aging equipment no longer supported by manufacturer needed for testing  |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | auto blotter                               | \$ 10,000.00   | New item to perform new Lyme testing.  |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | filtering pump system                      | \$ 800.00      | Replacement for aging equipment (>15 years) needed for specimen tracking   |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | gel casting equipment                      | \$ 3,000.00    | Replacement for aging equipment (>20 years) needed for testing   |
| Infectious Disease Virology Lab Division - Viral Isolation/Serology | Freezer Chart Recorders                    | \$ 12,000.00   | New item to record temperature data for Liquid Nitrogen System   |
| <b>Equipment List Sub Total</b>                                     |  |                | <b>\$296,968.00</b>  |

## Initial list

**Justification**

For storage of specimens received for testing

New item for reading results of Shiga toxin tests. Currently using borrowed equipment.

New item for dedicated hepatitis testing to replace older testing methodology.

Replacement of unrepairable equipment required for hepatitis screening.

Replacement of unrepairable equipment required for hepatitis screening.

Replacement for aging equipment- PFGE testing of select agents and surge capacity testing of foodborne pathogens using PulseNet methods.

New item to provide adequate testing capacity

Replacement for aging equipment (>20 years) needed for testing

Replacement of unrepairable equipment needed for evidence/ specimen

Replacement of unrepairable equipment needed for storage of evidence/ specimens

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment no longer supported by manufacturer needed for testing

Replacement of aging equipment needed for testing

New item for storing equipment and files.

Replacement of aging equipment needed for preparing testing reagents

New item to perform new Lyme testing.

Replacement for aging equipment (>20 years) needed for testing

Replacement of aging equipment used to prepare lab reagents

Provide remote monitoring of critical specimen freezers